

Tribhuvan University
Institute of Science and Technology

2076



Bachelor Level / Third Year /Fifth Semester/Science
Computer Science and Information Technology (CSc.315)
(System Analysis and Design)

Full Marks: 60
Pass Marks: 24
Time: 3 hours.

Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.

Section A

Attempt any two questions. (2 × 10 = 20)

1. What is waterfall model? Explain prototyping model for developing information systems along with merits and demerits. (2 + 8)
2. Define feasibility. Explain different categories of feasibility. How do you measure economic feasibility? (2 + 8)
3. Assuming a retail clothing store in a mall, draw a context diagram and a level-0 diagram that represent the selling system at the store. (4 + 6)

Section B

Attempt any eight questions. (8 × 5 = 40)

4. Explain modern approaches to system analysis and design. (5)
5. What is rapid application development? Explain. (5)
6. What is project initiation? Explain different activities you will perform during project initiation phase. (1 + 4)
7. Explain the process of identifying and selecting information system development project in brief. (5)
8. What is group interview? What are the benefits and drawbacks of group interview? (2 + 3)
9. How do you format forms and reports? Explain general guidelines for formatting forms and reports? (2 + 3)
10. List major activities of maintenance. Explain different types of maintenance activities. (1 + 4)
11. What is object oriented development ? How is it different from structured development? (2 + 3)
12. Write short notes on: (2 × 2.5 = 5)
 - a. Spiral model
 - b. Decision table